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DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 133

GI 15 Figure(s).

FIG. 1 illustrates an embodiment of the methods of the present invention.

FIGS. 2A-C illustrate a first exemplary precursor protein domain.

FIGS. 3A-B illustrate a second exemplary precursor protein domain.
 FIGS. 4A-B illustrate a third exemplary precursor protein domain.
 FIG. 5 illustrates exemplary systems of the present invention.
 FIG. 6 illustrates a schematic description of the preferred computer-assisted molecular design software, known as Perla.
 FIG. 7 illustrates plasmid pQEPDZ3, a plasmid containing a fusion between the third PDZ domain of PSD95 (amino acid 302402) and the polyhistidine (6XHis).
 FIG. 8 illustrates interactions between different PDZ domains and target peptides revealed by two-hybrid analysis. The plate labeled Eg5B contains the following results: (A) PDZEg5+EGFP; (B) PDZEb5+EGFP-tub; (C) PDZEg5+EGFP-pep; (D) PDZEg5+GalBd; (E) PDZEg5+EGFP-Eg5 and (F) PDZ-3+EGFP-eg5. Only the PDZEg5+EGFP-Eg5 combination results in viable cells showing that the redesigned PDZEg5 domain specifically interacts with its target peptide present in the EGFP-Eg5 fusion protein. The plate labeled PDZ-3 contains the following results: (A) PDZ-3+EGFP; (B) PDZ-3+EGFP-tub; (C) PDZ-3+EGFP-Eg5; (D) GalAD+GalBD; (E) PDZ3+EGFP-pep; (F) PDZ-3+EGFP-pep. This is the positive control showing that the PDZ-3 domain specifically interacts with its target peptide present in the EGFP-pep fusion protein.
 FIG. 9 illustrates affinity chromatography. The original PDZ domain (PDZ-3) and the redesigned PDZ (PDZ-Eg5) were immobilized in a solid phase and their efficiency to bind nonmodified GFP (A) and GFP fused to either the C-terminal peptide recognized by the original PDZ (B) or the C-terminal peptide of Eg-5 (C) was determined by Western Blot. PDZ-3 binds only to its naturally recognized target peptide. The re-designed PDZEg5 binds only to the Eg-5 C-terminal peptide.
 FIG. 10 illustrates sub-cellular localization of a protein fusion made of GFP and a PDZ domain that had been engineered to recognize the centrosome-associated protein Eg5. The redesigned PDZ domain that recognizes the C-terminus of Eg5 (PDZ-Eg5B) fused to GFP can be seen to accumulate around the microtubule organizing center where Eg5 is located (See, e.g., Cell 83:1159-1169 (1995); J Neurosciences 18:7822-7835 (1998)).
 FIG. 11 illustrates combining two separate PCR products with overlapping sequence into one longer product. The two overlapping primers are shown containing a mismatched base to the target sequence.
 FIG. 12 illustrates using inside primers for the creation of deletions (A) or small insertions (B).
 FIG. 13 illustrates recombinant PCR. Primers and sequences are shown for the joining of gene and promoter sequences.
 FIG. 14 illustrates determination of the affinity of a domain to a target by means of micro-calorimetry.
 FIG. 15 illustrates the results of methods of the present invention applied to re-design a wild type PDZ domain (designated PDZ-Wt*) to bind to its natural target, the last nine amino acids of the protein CRIPT (designated as "pep"). In (A), the re-designed domain (PDZ-Wt*) is bound to a **substrate for affinity purification of GFP** (green fluorescent protein) alone (lane labeled "GFP"), GFP fused with last nine amino acids of CRIPT (lane labeled "GFP-Pep"), and GFP fused with the last nine amino acids of eg5 Kinesin (lane labeled "GFP-eg5"). (A) demonstrates that PDZ-Wt* binds only to GFP-pep. In (B), two-hybrid assay results of PDZ-Wt* fused to the activation domain of gal4 (labeled pGAD wt*) with different GFP-fusions: "pGBKT7-GFP" designating GFP fused to the binding domain of GAL4; "pGBKT7-GFP-pep" designating GFP-pep fused to the binding domain of GAL4; and pGBKT7-GFP-eg5 designating GFP-eg5 fused to the binding domain of GAL4. (B) demonstrates cell viability occurs only when pGAD wt* binds to pGBKT7-GFP-pep.

AB

The present invention rapidly and efficiently provides proteins engineered to bind to arbitrary target proteins requiring only knowledge of the amino acid sequences of short portions of the target proteins (for example, either the amino or the carboxy termini). This invention provides such proteins as well as methods and systems for their design,

synthesis and use, and especially provides for use of a plurality of binding proteins in array format. The engineering methods of the present invention take a precursor protein known to already bind to a short peptide and engineer alterations in precursor proteins so that it binds to a new target peptide by using computerassisted molecular design techniques and optional assay for actual binding. The invention also provides arrays and libraries of binding proteins and methods of using binding proteins.

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 Last Updated on STN: 26 Feb 2002
 AB Site-specific proteases, which catalyze cleavage of peptide bonds in
 specific amino acid sequences of target proteins, play important roles in
 various biological events of many living organisms. In humans, disruption
 in regulation of these site-specific proteases can lead to pathological
 consequences. Here, we report a simple in vitro assay for enzymatic
 activities of site-specific proteases. This assay system employs a
 protein substrate molecule that is comprised of (i) His-tag binding
 module, (ii) cleavage sites, and (iii) green fluorescent protein (GFP)
 detection module. In this study, prostate-specific antigen (PSA) and
 Thrombin-specific cleavage sites were introduced into the substrate
 molecules. The overexpressed **GFP substrate** protein
 was **purified** with the aid of Ni⁺⁺-charged magnetic beads. On
 cleavage by either PSA or Thrombin, GFP was released from the bound
 magnetic beads, enabling a direct measurement of the cleaved product by
 fluorescence. Detection sensitivity, as well as the kinetics of reaction
 of PSA cleavage with the GFP substrate, was similar or better than
 commercially available PSA fluorogenic peptide substrate. This
 bead-attached GFP substrate was also used for an inhibition assay using a
 competitive inhibitor of Thrombin. In conclusion, this assay offers a
 simple fluorescent method for monitoring the activity of the site-specific
 proteases. Furthermore, this system provides flexible means of
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 CS University of Rochester, NY 14672, USA.
 NC CA70218 (NCI)
 SO BIOTECHNIQUES, (2001 Nov) 31 (5) 1194, 1196, 1198 passim.
 Journal code: 8306785. ISSN: 0736-6205.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS MEDLINE; Priority Journals

OS MEDLINE 2001683298

EM 200204

ED Entered STN: 20020726

Last Updated on STN: 20020726

AB Site-specific proteases, which catalyze cleavage of peptide bonds in specific amino acid sequences of target proteins, play important roles in various biological events of many living organisms. In humans, disruption in regulation of these site-specific proteases can lead to pathological consequences. Here, we report a simple in vitro assay for enzymatic activities of site-specific proteases. This assay system employs a protein substrate molecule that is comprised of (i) His-tag binding module, (ii) cleavage sites, and (iii) green fluorescent protein (GFP) detection module. In this study, prostate-specific antigen (PSA) and Thrombin-specific cleavage sites were introduced into the **substrate** molecules. The overexpressed **GFP substrate** protein was **purified** with the aid of Ni⁺⁺-charged magnetic beads. On cleavage by either PSA or Thrombin, GFP was released from the bound magnetic beads, enabling a direct measurement of the cleaved product by fluorescence. Detection sensitivity, as well as the kinetics of reaction of PSA cleavage with the GFP substrate, was similar or better than commercially available PSA fluorogenic peptide substrate. This bead-attached GFP substrate was also used for an inhibition assay using a competitive inhibitor of Thrombin. In conclusion, this assay offers a simple fluorescent method for monitoring the activity of the site-specific proteases. Furthermore, this system provides flexible means of incorporating varying sizes of flanking sequences adjacent to the cleavage site, which can be essential for studying the regulatory macromolecular interactions between proteases and their substrates.

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=> s protease (4A) (product)

25 FILES SEARCHED...

54 FILES SEARCHED...

65 FILES SEARCHED...

88 FILES SEARCHED...

L13 28649 PROTEASE (4A) (PRODUCT)

=> s product (3A) (purify or purifying or purified or purification or isolate
isolated or isolating or isolation)

18 FILES SEARCHED...

30 FILES SEARCHED...

49 FILES SEARCHED...

62 FILES SEARCHED...

74 FILES SEARCHED...

96 FILES SEARCHED...

L14 157502 PRODUCT (3A) (PURIFY OR PURIFYING OR PURIFIED OR PURIFICATION
OR ISOLATE ISOLATED OR ISOLATING OR ISOLATION)

=> s l13 (5A) l14

53 FILES SEARCHED...

L15 91 L13 (5A) L14

=> duplicate

ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove

ENTER L# LIST OR (END):l15

DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE,
DRUGMONOG2, IMSRESEARCH, FEDRIP, FOREGE, GENBANK, IMSPRODUCT, KOSMET,
MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, RDISCLOSURE, SYNTHLINE, CHEMLIST,
HSDB, MSDS-CCOHS, MSDS-OHS, RTECS, CONF, IMSDRUGCONF, DIOGENES, INVESTEXT,
USAN, FORIS, FORKAT, UFORDAT, AQUIRE'.

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DUPLICATE PREFERENCE IS 'AQUASCI, BIOBUSINESS, BIOSIS, BIOTECHABS, BIOTECHNO, CABA,
CAPLUS, CEABA-VTB, DISSABS, EMBASE, ESBIODASE, FEDRIP, IFIPAT, JICST-EPLUS,
LIFESCI, MEDLINE, OCEAN, PASCAL, RDISCLOSURE, SCISEARCH, TOXCENTE'

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PROCESSING COMPLETED FOR L15

L16 62 DUPLICATE REMOVE L15 (29 DUPLICATES REMOVED)

=> d 1-62 bib

L16 ANSWER 1 OF 62 USPATFULL on STN
AN 2004:51633 USPATFULL
TI Amine 1,2- and 1,3-diol compounds
IN Romero, Arthur G., Kalamazoo, MI, UNITED STATES
Schostarez, Heinrich J., Portage, MI, UNITED STATES
Roels, Christina M., Battle Creek, MI, UNITED STATES
PI US 2004039064 A1 20040226
AI US 2002-299739 A1 20021119 (10)
PRAI US 2001-333081P 20011119 (60)
US 2001-334000P 20011128 (60)
US 2002-362752P 20020308 (60)
DT Utility
FS APPLICATION
LREP Paul S. Tully, McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 S.
Wacker Drive, Chicago, IL, 60606
CLMN Number of Claims: 37
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 10130

L16 ANSWER 2 OF 62 USPATFULL on STN
AN 2003:165913 USPATFULL
TI Synthetic substrate for high specificity enzymatic assays
IN Zweig, Stephen Eliot, Los Gatos, CA, UNITED STATES
PI US 2003113768 A1 20030619
AI US 2002-233908 A1 20020903 (10)
PRAI US 2001-317023P 20010904 (60)
DT Utility
FS APPLICATION
LREP STEPHEN E. ZWEIG, 224 VISTA DE SIERRA, LOS GATOS, CA, 95030
CLMN Number of Claims: 22
ECL Exemplary Claim: 1
DRWN 10 Drawing Page(s)
LN.CNT 2036
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 3 OF 62 USPATFULL on STN
AN 2003:79144 USPATFULL
TI Aza- and polyaza-naphthalenyl carboxamides useful as HIV integrase
inhibitors
IN Anthony, Neville J., Hatfield, PA, UNITED STATES
Gomez, Robert P., Perkasio, PA, UNITED STATES
Young, Steven D., Lansdale, PA, UNITED STATES
Egbertson, Melissa, Ambler, PA, UNITED STATES
Wai, John S., Harleysville, PA, UNITED STATES
Zhuang, Linghang, Chalfont, PA, UNITED STATES
Embrey, Mark, North Wales, PA, UNITED STATES
Tran, LeKhanh, Norristown, PA, UNITED STATES
Melamed, Jeffrey Y., Doylestown, PA, UNITED STATES
Langford, H. Marie, Lansdale, NJ, UNITED STATES
Guare, James P., Quakertown, PA, UNITED STATES
Fisher, Thorsten E., Hatfield, PA, UNITED STATES
Jolly, Samson M., Quakertown, PA, UNITED STATES
Kuo, Michelle S., Gwynedd Valley, PA, UNITED STATES
Perlow, Debra S., East Greenville, PA, UNITED STATES
Bennett, Jennifer J., East Norriton, PA, UNITED STATES
Funk, Timothy W., Ephrata, PA, UNITED STATES
PI US 2003055071 A1 20030320
AI US 2001-973853 A1 20011010 (9)
PRAI US 2000-239707P 20001012 (60)
US 2001-281656P 20010405 (60)
DT Utility
FS APPLICATION

LREP MERCK AND CO INC, P O BOX 2000, RAHWAY, NJ, 070650907
CLMN Number of Claims: 36
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 11919
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 4 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2003:721763 CAPLUS
DN 139:323783
TI Native chemical ligation with aspartic and glutamic acids as C-terminal residues: Scope and limitations
AU Villain, Matteo; Gaertner, Hubert; Botti, Paolo
CS Geneva Branch, Protein Synthesis, GeneProt Inc., Meyrin, 1217, Switz.
SO European Journal of Organic Chemistry (2003), (17), 3267-3272
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 5 OF 62 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN DUPLICATE 2
AN 2003484788 EMBASE
TI Rapid Diversity-Oriented Synthesis in Microtiter Plates for in Situ Screening of HIV Protease Inhibitors.
AU Brik A.; Muldoon J.; Lin Y.-C.; Elder J.H.; Goodsell D.S.; Olson A.J.; Fokin V.V.; Sharpless K.B.; Wong C.-H.
CS Prof. V.V. Fokin, Department of Chemistry, Skaggs Inst. for Chemical Biology, Scripps Research Institute, 10550 North Torrey Pines Road, San Diego, CA 920, United States. fokin@scripps.edu
SO ChemBioChem, (7 Nov 2003) 4/11 (1246-1248).
Refs: 26
ISSN: 1439-4227 CODEN: CBCHFX
CY Germany
DT Journal; Article
FS 030 Pharmacology
037 Drug Literature Index
LA English
SL English

L16 ANSWER 6 OF 62 BABS COPYRIGHT 2004 BEILSTEIN MDL on STN
AN 6405273 BABS
TI Native Chemical Ligation with Aspartic and Glutamic Acids as C-Terminal Residues: Scope and Limitations
AU Villain, Matteo; Gaertner, Hubert; Botti, Paolo
SO Eur.J.Org.Chem. (2003), (17), 3267 - 3272
CODEN: EJOCFK
DT Journal
LA English
SL English

L16 ANSWER 7 OF 62 USPATFULL on STN DUPLICATE 3
AN 2002:314729 USPATFULL
TI Method for rapidly obtaining crystals with desirable morphologies
IN Heng, Meng H., Belmont, CA, UNITED STATES
PI US 2002177206 A1 20021128
US 6593118 B2 20030715
AI US 2001-53199 A1 20011102 (10)
RLI Division of Ser. No. US 2000-518786, filed on 3 Mar 2000, GRANTED, Pat. No. US 6403350
PRAI US 1999-123147P 19990305 (60)
DT Utility

FS APPLICATION
LREP Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA,
94034-1013
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 314
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 8 OF 62 USPATFULL on STN
AN 2002:32581 USPATFULL
TI Methods to treat alzheimer's disease
IN Hom, Roy, San Francisco, CA, UNITED STATES
Mamo, Shumeye S., Oakland, CA, UNITED STATES
Tung, Jay, Belmont, CA, UNITED STATES
Gailunas, Andrea, San Francisco, CA, UNITED STATES
John, Varghese, San Francisco, CA, UNITED STATES
Fang, Lawrence Y., Foster City, CA, UNITED STATES

PI US 2002019403 A1 20020214
AI US 2001-816876 A1 20010323 (9)
PRAI US 2000-191528P 20000323 (60)
DT Utility
FS APPLICATION
LREP MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903
CLMN Number of Claims: 63
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 8655
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 9 OF 62 USPATFULL on STN
AN 2002:136795 USPATFULL
TI Method for rapidly obtaining enzyme crystals with desirable morphologies
IN Heng, Meng H., Belmont, CA, United States
PA Genencor International, Inc., Palo Alto, CA, United States (U.S.
corporation)
PI US 6403350 B1 20020611
AI US 2000-518786 20000303 (9)
PRAI US 1999-123147P 19990305 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Naff, David M.; Assistant Examiner: Meller, Mike
LREP Genencor International, Inc.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 290
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 10 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2002-353070 [39] WPINDEX
DNC C2002-100443
TI Giant well bombinator proteinase inhibitor, useful for treating tumor,
gastritis and pancreatitis.
DC B04 D16
IN LAI, R; ZHANG, Y; ZHENG, Y
PA (KUNM-N) KUNMING ZOOLOGY INST CHINESE ACAD SCI
CYC 1
PI CN 1336385 A 20020220 (200239)*
ADT CN 1336385 A CN 2000-122416 20000729
PRAI CN 2000-122416 20000729

L16 ANSWER 11 OF 62 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 4

AN 2002:382534 BIOSIS
DN PREV200200382534
TI Excretory bladder: The source of cysteine proteases in *Paragonimus westermani* metacercariae.
AU Yang, Hyun-Jong; Chung, Young-Bae [Reprint author]; Kang, Shin-Yong; Kong, Yoon; Cho, Seung-Yull
CS Department of Parasitology, College of Medicine, Cheju National University, Jeju, 690-756, South Korea
ybchung@webmail.cheju.ac.kr
SO Korean Journal of Parasitology, (June, 2002) Vol. 40, No. 2, pp. 89-92. print.
CODEN: KSCHAV. ISSN: 0368-6809.
DT Article
LA English
ED Entered STN: 10 Jul 2002
Last Updated on STN: 10 Jul 2002

L16 ANSWER 12 OF 62 USPATFULL on STN

AN 2001:43995 USPATFULL
TI Crystalline protease and method for producing same
IN Gros, Ernst Hakan, Kantvik, Finland
Cunefare, Jerry L., Espoo, Finland
PA Genencor International, Inc., Palo Alto, CA, United States (U.S. corporation)
PI US 6207437 B1 20010327
AI US 1996-615343 19960311 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Weber, Jon P.
LREP Genenecor International, Inc.
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 409
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 13 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2000-271358 [23] WPINDEX
DNC C2000-082850
TI Preparation of phenyl thioethers from 4-hydroxypyran-2-ones and thiosulfonic esters, useful for treatment of HIV and AIDS.
DC B03 B05
IN FEDIJ, V; GAJDA, C A; HUCKABEE, B K; MOON, B S; PORTER, K T; SOBIERAY, D M; STUK, T L; TAIT, B D; WEMPLE, J N
PA (WARN) WARNER LAMBERT CO; (FEDI-I) FEDIJ V; (GAJD-I) GAJDA C A; (HUCK-I) HUCKABEE B K; (MOON-I) MOON B S; (PORT-I) PORTER K T; (SOBI-I) SOBIERAY D M; (STUK-I) STUK T L; (TAIT-I) TAIT B D; (WEMP-I) WEMPLE J N
CYC 77
PI WO 2000015625 A2 20000323 (200023)* EN 151p
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ UG ZW
W: AE AL AU BA BB BG BR CA CN CU CZ EE GD GE HR HU ID IL IN IS JP KP
KR LC LK LR LT LV MG MK MN MX NO NZ PL RO SG SI SK SL TR TT UA US
UZ VN YU ZA
AU 9950896 A 20000403 (200034)
US 6380400 B1 20020430 (200235)
ADT WO 2000015625 A2 WO 1999-US15118 19990701; AU 9950896 A AU 1999-50896 19990701; US 6380400 B1 Provisional US 1998-99944P 19980911, WO 1999-US15118 19990701, US 2000-674381 20001031
FDT AU 9950896 A Based on WO 2000015625; US 6380400 B1 Based on WO 2000015625
PRAI US 1998-99944P 19980911; US 2000-674381 20001031

L16 ANSWER 14 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1999-05694 BIOTECHABS

TI New purified proteolytic enzyme for preparation of baby food;
trypsin purification for use in the food industry
AU Braun M; Neumann F
PA Nestle
LO Vevey, Switzerland.
PI EP 899331 3 Mar 1999
AI EP 1997-202591 22 Aug 1997
PRAI CH 1997-202591 22 Aug 1997
DT Patent
LA French
OS WPI: 1999-144802 [13]

L16 ANSWER 15 OF 62 USPATFULL on STN
AN 1999:128367 USPATFULL
TI Method for detecting the presence of protein C antibody in a fluid
sample
IN Griffin, John H., Del Mar, CA, United States
Mesters, Rolf M., La Jolla, CA, United States
PA The Scripps Research Institute, La Jolla, CA, United States (U.S.
corporation)
PI US 5968751 19991019
AI US 1997-955471 19971021 (8)
RLI Division of Ser. No. US 1994-295411, filed on 22 Aug 1994, now patented,
Pat. No. US 5679639 which is a continuation of Ser. No. US 1991-793989,
filed on 18 Nov 1991, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Housel, James C.; Assistant Examiner: Devi, S.
LREP Fitting, Thomas, Northrup, Thomas E., Holmes, Emily
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 3806
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 16 OF 62 USPATFULL on STN
AN 1999:36935 USPATFULL
TI Vaccine containing a serine protease
IN Dalton, John P., Dublin, Ireland
Andrews, Stuart J., Staines, England
PA Mallinckrodt Veterinary, Inc., Mundelein, IL, United States (U.S.
corporation)
PI US 5885814 19990323
WO 9428925 19941222
AI US 1996-564091 19960426 (8)
WO 1994-GB1274 19940614
19960426 PCT 371 date
19960426 PCT 102(e) date
PRAI GB 1993-12324 19930615
DT Utility
FS Granted
EXNAM Primary Examiner: Hutzell, Paul K.; Assistant Examiner: Masood, Khalid
LREP Rothwell, Figg, Ernst & Kurz
CLMN Number of Claims: 1
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 376
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 17 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:71150 CAPLUS
DN 132:344707
TI Purification of fungal protease produced by Mucor racemosus f. racemosus
PDA 103 from Korean traditional meju

AU Lim, Seong-Il; Yoo, Jin-Young
CS Division of Chemistry and Biotechnology, Korea Food Research Institute,
Kyonggido, 463-420, S. Korea
SO Sanop Misaengmul Hakhoechi (1999), 27(6), 446-451
CODEN: SMHAEH; ISSN: 0257-2389
PB Korean Society for Applied Microbiology
DT Journal
LA Korean

L16 ANSWER 18 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:185498 CAPLUS
DN 131:70104
TI Purification and properties of product of the
thermostable protease gene from Bacillus stearothermophilus
HY-69

AU Sun, Chao; Jin, Cheng; Yang, Shoujun; Zhang, Shuzheng
CS Institute of Microbiology, The Chinese Academy of Sciences, Beijing,
100080, Peop. Rep. China
SO Shengwu Gongcheng Xuebao (1999), 15(1), 17-22
CODEN: SGXUED; ISSN: 1000-3061
PB Kexue Chubanshe
DT Journal
LA Chinese

L16 ANSWER 19 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:134498 CAPLUS
DN 132:132321
TI Isolation and retrovirus protease inhibitory activity of triterpenes
IN Zeng, Fa-Quan; Sim, Keng-Yeow; Xu, Hong-Xi; Wan, Min
PA Dalhousie University, Can.; The National University of Singapore
SO Can. Pat. Appl., 55 pp.
CODEN: CPXXEB
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----		-----	-----	-----
PI	CA 2209222	AA	19981227	CA 1997-2209222	19970627
PRAI	CA 1997-2209222		19970627		
OS	MARPAT 132:132321				

L16 ANSWER 20 OF 62 USPATFULL on STN
AN 1998:157169 USPATFULL
TI Proteases causing degradation of amyloid β -protein precursor
IN Abraham, Carmela R., Lexington, MA, United States
PA Trustees of Boston University, Boston, MA, United States (U.S.
corporation)
PI US 5849560 19981215
AI US 1993-25321 19930226 (8)
RLI Continuation-in-part of Ser. No. US 1991-681093, filed on 5 Apr 1991,
now patented, Pat. No. US 5200339 which is a continuation-in-part of
Ser. No. US 1990-568806, filed on 17 Aug 1990, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Rollins, John W.; Assistant Examiner: Weber, Jon P.
LREP Choate, Hall & Stewart
CLMN Number of Claims: 3
ECL Exemplary Claim: 1
DRWN 16 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 1049
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 21 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1998-07395 BIOTECHABS

TI Direct combination of purification methods dramatically improves
 cohesive-end subcloning of PCR products;
 polymerase chain reaction **product purification**
 involving **protease-K** digestion, phenol-chloroform
 extraction, ethanol precipitation, column purification and
 endonuclease digestion
 AU Wybranietz W A; Lauer U
 CS Univ.Tuebingen
 LO Department of Internal Medicine I, Medical University Clinic Tuebingen,
 Building C031-033, Otfried-Mueller-Str. 10, D-72076 Tuebingen, Germany.
 Email: wolfgang.wybranietz@uni-tuebingen.de
 SO BioTechniques; (1998) 24, 4, 578-80
 CODEN: BTNQDO ISSN: 0736-6205
 DT Journal
 LA English

L16 ANSWER 22 OF 62 USPATFULL on STN
 AN 97:96835 USPATFULL
 TI Serine protease derived-polypeptides and anti-peptide antibodies,
 systems and therapeutic methods for inhibiting coagulation
 IN Griffin, John H., Del Mar, CA, United States
 Mesters, Rolf M., La Jolla, CA, United States
 PA The Scripps Research Institute, La Jolla, CA, United States (U.S.
 corporation)
 PI US 5679639 19971021
 AI US 1994-295411 19940822 (8)
 RLI Continuation of Ser. No. US 1991-793989, filed on 18 Nov 1991, now
 abandoned
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Marshall, S. G.
 LREP Fitting, Thomas, Holmes, Emily
 CLMN Number of Claims: 4
 ECL Exemplary Claim: 1
 DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
 LN.CNT 3624
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 23 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:237488 CAPLUS
 DN 124:311797
 TI Hydrophobic chromatographic resins with ionizable groups
 IN Burton, Simon C.; Harding, David R. K.; Becker, Nathaniel Todd; Builthuis,
 Ben A.; Steele, Landon M.
 PA Massey University, N. Z.
 SO PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9600735	A1	19960111	WO 1995-IB598	19950623
	W: AU, CA, FI, JP, MX, NZ				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2193867	AA	19960111	CA 1995-2193867	19950623
	AU 9529354	A1	19960125	AU 1995-29354	19950623
	AU 682780	B2	19971016		
	EP 773954	A1	19970521	EP 1995-925095	19950623
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 10502339	T2	19980303	JP 1995-502987	19950623
	FI 9605233	A	19961227	FI 1996-5233	19961227
PRAI	US 1994-268178		19940629		
	WO 1995-IB598		19950623		

L16 ANSWER 24 OF 62 USPATFULL on STN
AN 96:94555 USPATFULL
TI Viral infection and proliferation inhibitors
IN Yamamoto, Naoki, Tokyo, Japan
Nakashima, Hideki, Tokyo, Japan
Motsuchi, Wataru, Sagamihara, Japan
Tanaka, Shigeaki, Ayase, Japan
Dosako, Shun'ichi, Urawa, Japan
Kawasaki, Yoshihiro, Kawagoe, Japan
Uchida, Toshiaki, Kawagoe, Japan
PA Snow Brand Milk Products Co., Ltd, Japan (non-U.S. corporation)
PI US 5565425 19961015
AI US 1994-204487 19940302 (8)
PRAI JP 1993-69210 19930304
DT Utility
FS Granted
EXNAM Primary Examiner: Scheiner, Toni R.; Assistant Examiner: Huff, Sheela J.
LREP Testa, Hurwitz & Thibeault, LLP
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 577
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 25 OF 62 AQUASCI COPYRIGHT (C) 2004 FAO (on behalf of the ASFA
Advisory Board). All Rights Reserved. on STN DUPLICATE 6
AN 1998:26995 AQUASCI
DN ASFA1 1998 28-13239
TI The effects of Perkinsus marinus extracellular **products** and
purified proteases on oyster defence parameters in vitro
AU Garreis, K.A.; La Peyre, J.F.; Faisal, M.*
CS Sch. Mar. Sci., Virginia Inst. Mar. Sci., Coll. William and Mary,
Gloucester Point, VA 23062, USA
SO FISH SHELLFISH IMMUNOL., (19961100) vol. 6, no. 8, pp. 581-597.
ISSN: 1050-4648.
DT Journal
FS ASFA1
LA English
SL English

L16 ANSWER 26 OF 62 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 7
AN 1996:574443 BIOSIS
DN PREV199799289124
TI Degradation by proteases Lon, Clp and HtrA, of Escherichia coli proteins
aggregated in vivo by heat shock; HtrA protease action in vivo and in
vitro.
AU Laskowska, Ewa; Kuczynska-Wisnik, Dorota; Skorko-Glonek, Joanna; Taylor,
Alina [Reprint author]
CS Dep. Biochem., Univ. Gdansk, Kladki 24, 80-822 Gdansk, Poland
SO Molecular Microbiology, (1996) Vol. 22, No. 3, pp. 555-571.
CODEN: MOMIEE. ISSN: 0950-382X.
DT Article
LA English
ED Entered STN: 23 Dec 1996
Last Updated on STN: 11 Feb 1997

L16 ANSWER 27 OF 62 IFIPAT COPYRIGHT 2004 IFI on STN
AN 02618674 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR THE ENZYMATIC CLEAVAGE OF RECOMBINANT PROTEINS USING IGA
PROTEASES; MODIFYING JUNCTION REGION BETWEEN TWO COMPONENTS OF FUSION
PROTEIN TO FORM IMMUNOGLOBULIN A PROTEASE RECOGNITION SITE, CLEAVING,
ISOLATING COMPONENT

INF Dony, Carola, Starnberg, DE
 Meyer, Thomas F, Tubingen, DE
 Pohlner, Johannes, Tubingen, DE
 Schumacher, Gunter, Bernried, DE
 IN Dony Carola (DE); Meyer Thomas F (DE); Pohlner Johannes (DE); Schumacher
 Gunter (DE)
 PAF Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften EV, Gottingen,
 DE
 PA Planck-Gesell, Max- zur Forderung der Wissenschaften DE (53200)
 EXNAM Patterson, Jr, Charles L
 AG Felfe & Lynch
 PI US 5427927 A 19950627 (CITED IN 002 LATER PATENTS)
 WO 9111520 19910808
 AI US 1992-917034 19920830
 WO 1991-EP192 19910201
 19920830 PCT 371 date
 19920830 PCT 102(e) date
 XPD 27 Jun 2012
 PRAI DE 1990-4003149 19900203
 DE 1990-4015921 19900517
 DE 1990-4015922 19900517
 DE 1990-4039415 19901210
 FI US 5427927 19950627
 DT Utility
 FS CHEMICAL
 GRANTED
 MRN 006386 MFN: 0205
 CLMN 57
 GI 4 Drawing Sheet(s), 4 Figure(s).

L16 ANSWER 28 OF 62 USPATFULL on STN
 AN 95:71464 USPATFULL
 TI Fibronectin binding peptide
 IN Hook, Magnus, 129 Stevens Hill Cir., Birmingham, AL, United States
 35244
 McGavin, Martin, 1717 Beacon Crest Cir., Birmingham, AL, United States
 35209
 Raucci, Guiseppe, Via Tito Speri 10, I-00040 Pomezia, Rome, Italy
 PI US 5440014 19950808
 AI US 1994-234622 19940428 (8)
 RLI Continuation of Ser. No. US 1993-55783, filed on 3 May 1993, now
 abandoned which is a continuation of Ser. No. US 1992-846995, filed on 8
 Jun 1992, now abandoned
 PRAI SE 1990-2617 19900810
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Warden, Jill; Assistant Examiner: Marshall, S. G.
 LREP Burns, Doane, Swecker & Mathis
 CLMN Number of Claims: 1
 ECL Exemplary Claim: 1
 DRWN 6 Drawing Figure(s); 6 Drawing Page(s)
 LN.CNT 679
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 29 OF 62 USPATFULL on STN
 AN 95:71269 USPATFULL
 TI Method of preparation of purified alkaline protease
 IN Shetty, Jayarama K., Elkhart, IN, United States
 Patel, Chimanbhai P., Mishawaka, IN, United States
 Nicholson, Mary Ann, Portage, MI, United States
 PA Solvay Enzymes, Inc., Houston, TX, United States (U.S. corporation)
 PI US 5439817 19950808
 AI US 1993-6484 19930121 (8)
 RLI Division of Ser. No. US 1991-813705, filed on 27 Dec 1991, now patented,

Pat. No. US 5256557
DT Utility
FS Granted
EXNAM Primary Examiner: Robinson, Douglas W.
LREP Willian Brinks Hofer Gilson & Lione
CLMN Number of Claims: 7
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 1092
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 30 OF 62 USPATFULL on STN
AN 95:31791 USPATFULL
TI Purified enzyme concentrate and method of preparation
IN Shetty, Jayarama K., Elkhart, IN, United States
Patel, Chimanbhai P., Mishawaka, IN, United States
PA Solvay Enzymes, Inc., Houston, TX, United States (U.S. corporation)
PI US 5405767 19950411
AI US 1992-865252 19920408 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Lankford, L. Blaine
LREP Willian Brinks Hofer Gilson & Lione
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 988
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 31 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1995-360592 [47] WPINDEX
DNC C1995-157603
TI DNA encoding fusion protein of B.pertussis filamentous haemagglutinin and heterologous antigen - useful as vaccines having the same immunogenicity as FHA, partic. for nasal admin.
DC B04 C06 D16
IN CAPRON, A; LOCHT, C; MONOZZI, F; RENAULD, G; RIVEAU, G; JACOB-DUBUISSON, F; MENOZZI, F
PA (INRM) INST NAT SANTE & RECH MEDICALE; (INSP) INST PASTEUR; (INSP) INST PASTEUR LILLE; (INRM) INSERM INST NAT SANTE & RECH MEDICALE
CYC 21
PI FR 2718750 A1 19951020 (199547)* 58p
WO 9528486 A2 19951026 (199548) FR 62p
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
W: AU CA JP US
AU 9524121 A 19951110 (199607)
WO 9528486 A3 19960111 (199622)
EP 755447 A1 19970129 (199710) FR
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
EP 755447 B1 20030702 (200345) FR
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
DE 69531200 E 20030807 (200359)
ADT FR 2718750 A1 FR 1994-4661 19940419; WO 9528486 A2 WO 1995-FR512 19950419; AU 9524121 A AU 1995-24121 19950419; WO 9528486 A3 WO 1995-FR512 19950419; EP 755447 A1 EP 1995-918030 19950419, WO 1995-FR512 19950419; EP 755447 B1 EP 1995-918030 19950419, WO 1995-FR512 19950419; DE 69531200 E DE 1995-631200 19950419, EP 1995-918030 19950419, WO 1995-FR512 19950419
FDT AU 9524121 A Based on WO 9528486; EP 755447 A1 Based on WO 9528486; EP 755447 B1 Based on WO 9528486; DE 69531200 E Based on EP 755447, Based on WO 9528486
PRAI FR 1994-4661 19940419

L16 ANSWER 32 OF 62 BIOBUSINESS COPYRIGHT 2004 BIOSIS on STN DUPLICATE 8

AN 95:56826 BIOBUSINESS
 DN 0730501
 TI Polymerase chain reaction amplification and restriction fragment length polymorphism analysis of 16S rRNA genes from methanogens.
 AU Hiraishi A; Kamagata Y; Nakamura K
 CS Central Res. Lab., Ajinomoto Co. Inc., 1-1 Suzuki-cho, Kawasaki-ku, Kawasaki 210, Japan
 SO Journal of Fermentation and Bioengineering, (1995) Vol.79, No.6, P.523-529.
 ISSN: 0922-338X.
 FS NONUNIQUE
 LA ENGLISH

L16 ANSWER 33 OF 62 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 95:472068 SCISEARCH
 GA The Genuine Article (R) Number: RG766
 TI POLYMERASE CHAIN-REACTION AMPLIFICATION AND RESTRICTION-FRAGMENT-LENGTH-POLYMORPHISM ANALYSIS OF 16S RIBOSOMAL-RNA GENES FROM METHANOGENS
 AU HIRAISHI A (Reprint); KAMAGATA Y; NAKAMURA K
 CS AJINOMOTO CO INC, CENT RES LABS, KAWASAKI KU, 1-1 SUZUKI CHO, KAWASAKI, KANAGAWA 210, JAPAN (Reprint); KONISHI CO, ENVIRONM BIOTECHNOL LAB, SUMIDA KU, TOKYO 130, JAPAN; AGCY IND SCI & TECHNOL, NATL INST BIOSCI & HUMAN TECHNOL, TSUKUBA, IBARAKI 305, JAPAN
 CYA JAPAN
 SO JOURNAL OF FERMENTATION AND BIOENGINEERING, (1995) Vol. 79, No. 6, pp. 523-529.
 ISSN: 0922-338X.
 DT Article; Journal
 FS LIFE; AGRI
 LA ENGLISH
 REC Reference Count: 24
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L16 ANSWER 34 OF 62 USPATFULL on STN
 AN 94:75444 USPATFULL
 TI Fibronectin purification vector
 IN Mosher, Deane F., Madison, WI, United States
 Sottile, Jane M., Madison, WI, United States
 PA Wisconsin Alumni Research Foundation, Madison, WI, United States (U.S. corporation)
 PI US 5342762 19940830
 AI US 1991-637250 19910103 (7)
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Wax, Robert C.; Assistant Examiner: Jacobson, Dian C.
 LREP Quarles & Brady
 CLMN Number of Claims: 5
 ECL Exemplary Claim: 1
 DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 489
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 35 OF 62 PASCAL COPYRIGHT 2004 INIST-CNRS. ALL RIGHTS RESERVED. on STN
 AN 1995-0075175 PASCAL
 CP Copyright .COPYRGT. 1995 INIST-CNRS. All rights reserved.
 TIEN Cleavage of immunoglobulin G by excretory-secretory cathepsin S-like protease of *Spirometra mansoni* plerocercoid
 AU KONG Y.; CHUNG Y.-B.; CHO S.-Y.; KANG S.-Y.
 CS Chung-Ang univ., coll. medicine, dep. parasitology, Seoul 156-756, Korea, Republic of
 SO Parasitology, (1994), 109(5), 611-621, refs. 1 p.1/4
 ISSN: 0031-1820 CODEN: PARAAE
 DT Journal

BL Analytic
CY United Kingdom
LA English
AV INIST-3187, 354000057188700090

L16 ANSWER 36 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1994-01764 BIOTECHABS
TI Separation of particulate solid catalyst;
immobilized enzyme recycle by filtration or centrifugation for
precipitated **product purification**, for use with
protease, thermolysin, amidase, esterase or penicillin-amidase
PA Novo-Nordisk
PI WO 9323164 25 Nov 1993
AI WO 1993-DK159 13 May 1993
PRAI DK 1992-641 14 May 1992
DT Patent
LA English
OS WPI: 1993-386289 [48]

L16 ANSWER 37 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1993-08215 BIOTECHABS
TI Astaxanthin preparation;
from Haematococcus pluvialis
PA Higashimaru-Shoyu
PI JP 05068585 23 Mar 1993
AI JP 1991-231965 11 Sep 1991
PRAI JP 1991-231965 11 Sep 1991
DT Patent
LA Japanese
OS WPI: 1993-136904 [17]

L16 ANSWER 38 OF 62 USPATFULL on STN
AN 93:89565 USPATFULL
TI Purified alkaline protease concentrate and method of preparation
IN Shetty, Jayarama K., Elkhart, IN, United States
Patel, Chimanbhai P., Mishawaka, IN, United States
Nicholson, Mary A., Portazi, MI, United States
PA Solvay Enzymes, Inc., Houston, TX, United States (U.S. corporation)
PI US 5256557 19931026
AI US 1991-813705 19911227 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Robinson, Douglas W.; Assistant Examiner: Sevigny,
Jeffrey J.
LREP Willian Brinks Olds Hofer Gilson & Lione
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 1054
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 39 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1992-376304 [46] WPINDEX
DNC C1992-166949
TI Peptide(s) useful as angiotensin-converting enzyme inhibitors - obtd. by
denaturing wheat gluten, adding an acidic **protease**, stirring,
heating hydrolysed **prod.**, centrifuging and **purifying**
supernatant.
DC B04
PA (KIKK) KIKKOMAN CORP
CYC 1
PI JP 04275298 A 19920930 (199246)* 5p
ADT JP 04275298 A JP 1991-59286 19910302
PRAI JP 1991-59286 19910302

L16 ANSWER 40 OF 62 USPATFULL on STN
 AN 91:48559 USPATFULL
 TI Serum free media for the growth on insect cells and expression of products thereby
 IN Inlow, Duane, Oakland, CA, United States
 Maiorella, Brian, Oakland, CA, United States
 PA Cetus Corporation, Emeryville, CA, United States (U.S. corporation)
 PI US 5024947 19910618
 AI US 1987-77303 19870724 (7)
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Weimar, Elizabeth C.; Assistant Examiner: Chambers, Jasmine C.
 LREP Lauder, Leona L., Wong, Wean Khing
 CLMN Number of Claims: 14
 ECL Exemplary Claim: 1
 DRWN 1 Drawing Figure(s); 2 Drawing Page(s)
 LN.CNT 1552

L16 ANSWER 41 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
 AN 1991-087276 [12] WPINDEX
 DNC C1991-037110
 TI Production of alkaline protease in Bacillus - for purification of the introduced protease gene product.
 DC D16 D25
 IN BAHN, M; HANSEN, D; HOM, S S M; KENNEDY, N C T; LADIN, B F; MARKGRAF, M; MIELENZ, J R; PAECH, C; REYNOLDS, R B; SCHINDLER, J; SCHMID, R; WILSON, C R; MAURER, K; HOM, S S; KENNEDY, N C; SCHNEIDE, R J
 PA (HENK) HENKEL RES CORP; (HENK) HENKEL AMERICA INC; (HENK) HENKEL KGAA
 CYC 17
 PI WO 9102792 A 19910307 (199112)* 85p
 RW: AT BE CH DE DK ES FR GB IT LU NL SE
 W: CA JP KR
 EP 493398 A1 19920708 (199228) EN 85p
 R: AT BE CH DE DK ES FR GB IT LI LU NL SE
 JP 04507346 W 19921224 (199306) 35p
 US 5352604 A 19941004 (199439) 47p
 EP 493398 B1 19991208 (200002) EN
 R: AT BE CH DE DK ES FR GB IT LI LU NL SE
 DE 69033388 E 20000113 (200010)
 ES 2144990 T3 20000701 (200036)
 KR 200166 B1 19990615 (200060)
 JP 3220137 B2 20011022 (200169) 64p
 ADT EP 493398 A1 EP 1990-912607 19900817, WO 1990-US4673 19900817; JP 04507346 W JP 1990-511917 19900817, WO 1990-US4673 19900817; US 5352604 A Cont of US 1989-398854 19890825, US 1993-33080 19930310; EP 493398 B1 EP 1990-912607 19900817, WO 1990-US4673 19900817; DE 69033388 E DE 1990-633388 19900817, EP 1990-912607 19900817, WO 1990-US4673 19900817; ES 2144990 T3 EP 1990-912607 19900817; KR 200166 B1 KR 1991-700414 19910425; JP 3220137 B2 JP 1990-511917 19900817, WO 1990-US4673 19900817
 FDT EP 493398 A1 Based on WO 9102792; JP 04507346 W Based on WO 9102792; EP 493398 B1 Based on WO 9102792; DE 69033388 E Based on EP 493398, Based on WO 9102792; ES 2144990 T3 Based on EP 493398; JP 3220137 B2 Previous Publ. JP 04507346, Based on WO 9102792
 PRAI US 1989-398854 19890825

L16 ANSWER 42 OF 62 DISSABS COPYRIGHT (C) 2004 ProQuest Information and Learning Company; All Rights Reserved on STN
 AN 90:2637 DISSABS Order Number: AARC171089 (not available for sale by UMI)
 TI PROTEOLYTIC DEGRADATION OF RECOMBINANT FUSION PROTEINS EXPRESSED IN BACTERIA
 AU HELLEBUST, HALLDIS [TEKN.DR]

CS KUNGLIGA TEKNISKA HOGSKOLAN (SWEDEN) (1022)
SO Dissertation Abstracts International, (1990) Vol. 52, No. 2C, p. 250.
Order No.: AARC171089 (not available for sale by UMI). ROYAL INSTITUTE OF
TECHNOLOGY, S-100 44 STOCKHOLM 70, SWEDEN. 95 pages.
DT Dissertation
FS DAI
LA English
ED Entered STN: 19921118
Last Updated on STN: 19921118

L16 ANSWER 43 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1990-02667 BIOTECHABS
TI Toxicity of protease-resistant domains from the delta-endotoxin of
Bacillus thuringiensis subsp. israelensis in Culex quinquefasciatus and
Aedes aegypti bioassays;
comparison of chymotrypsin-digested and undigested endotoxin
AU Pfannenstiel M A; Cray Jr W C; Couche G A; *Nickerson K W
LO School of Biological Sciences, University of Nebraska, Lincoln, Nebraska
68588-0343, USA.
SO Appl.Environ.Microbiol.; (1990) 56, 1, 162-66
CODEN: AEMIDF
DT Journal
LA English

L16 ANSWER 44 OF 62 USPATFULL on STN
AN 89:56231 USPATFULL
TI Synthetic bovine parainfluenza viral proteins
IN Rice, John M., Westerville, OH, United States
PA W. R. Grace & Co.-Conn., New York, NY, United States (U.S. corporation)
PI US 4847081 19890711
AI US 1987-14499 19870330 (7)
RLI Division of Ser. No. US 1984-632106, filed on 18 Jul 1984, now patented,
Pat. No. US 4743553
DT Utility
FS Granted
EXNAM Primary Examiner: Hazel, Blondel
LREP Krafte, Jill H.
CLMN Number of Claims: 4
ECL Exemplary Claim: 1,3
DRWN 4 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 963
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 45 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1990-084042 [12] WPINDEX
DNN N1990-064807 DNC C1990-036892
TI Removing gelating layers from photographic film - by washing in presence
of enzyme from streptomyces rimosus fermentation for oxytetracycline.
DC D16 G06 M25 P83
IN HESS, W; KNABE, K; KOHLER, W; MULLER, P J; OZEGOWSKI, J H; SCHMIDT, D;
SCHORNING, D
PA (DEAK) AKAD WISSENSCHAFTEN DDR
CYC 1
PI DD 272531 A 19891011 (199012)* 5p
ADT DD 272531 A DD 1988-316308 19880602
PRAI DD 1988-316308 19880602

L16 ANSWER 46 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1989-04204 BIOTECHABS
TI Arginine-containing peptide production;
by reacting reactive ester with unprotected arginine ester in presence
of protease, e.g. papain or bromelain
PA Karl-Marx-Univ.DDR
PI DD 260084 14 Sep 1988

AI DD 1987-301949 20 Apr 1987
PRAI DD 1987-301949 20 Apr 1987
DT Patent
LA German
OS WPI: 1989-016165 [03]

L16 ANSWER 47 OF 62 USPATFULL on STN
AN 88:29375 USPATFULL
TI Synthetic genes for bovine parainfluenza virus
IN Rice, John M., Westerville, OH, United States
PA W. R. Grace & Co., New York, NY, United States (U.S. corporation)
PI US 4743553 19880510
AI US 1984-632106 19840718 (6)
DT Utility
FS Granted
EXNAM Primary Examiner: Hazel, Blondel
LREP Krafte, Jill H.
CLMN Number of Claims: 12
ECL Exemplary Claim: 1,7
DRWN 4 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 970
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 48 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1988-318075 [45] WPINDEX
DNC C1988-140358
TI Compsn. used for **purifying protease prods.** -
containing chemically modified serine **protease** with affinity ligand
activity but no catalyst activity.
DC D16
PA (TAKI) TAKARA SHUZO CO LTD
CYC 1
PI JP 63233788 A 19880929 (198845)* 9p
JP 07121222 B2 19951225 (199605) 8p
ADT JP 63233788 A JP 1987-67879 19870324; JP 07121222 B2 JP 1987-67879
19870324
FDT JP 07121222 B2 Based on JP 63233788
PRAI JP 1987-67879 19870324

L16 ANSWER 49 OF 62 CABA COPYRIGHT 2004 CABI on STN
AN 88:25815 CABA
DN 19880710584
TI Purification and characterization of two glycopeptide hydrolases from jack
beans
AU Yet, M. G.; Wold, F.
CS Dep. Biochem. and Molecular Biol., Univ. Texas Med. School, Houston, TX
77225, USA.
SO Journal of Biological Chemistry, (1988) Vol. 263, No. 1, pp. 118-122. 19
ref.
ISSN: 0021-9258
DT Journal
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L16 ANSWER 50 OF 62 USPATFULL on STN
AN 86:6502 USPATFULL
TI Thrombolytic agent
IN Mihara, Hisashi, 2754-15, Hongominamikata, Miyazaki-shi, Miyazaki-ken,
Japan
Sumi, Hiroyuki, Miyazaki, Japan
Matsuura, Akira, Kasugai, Japan
Inukai, Tadahiko, Nagoya, Japan
PA Amano Seiyaku Kabushiki Kaisha, Aichi, Japan (non-U.S. corporation)

Mihara, Hisashi, Miyazaki, Japan (non-U.S. individual)
PI US 4568545 19860204
AI US 1983-508163 19830627 (6)
PRAI JP 1982-173669 19821002
JP 1983-55460 19830331

DT Utility
FS Granted
EXNAM Primary Examiner: Shapiro, Lionel M.
LREP Brisebois & Kruger
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 48 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 2419
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 51 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1986-160663 [25] WPINDEX
DNC C1986-069011
TI Odour-free proteolytic enzyme compsn. - containing other enzymes such as
amylolytic, lipolytic and cellulolytic enzymes to enhance smell removal.
DC D22
PA (ANON) ANONYMOUS
CYC 1
PI RD 265054 A 19860510 (198625)*
PRAI RD 1986-265054 19860420

L16 ANSWER 52 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1986-09391 BIOTECHABS
TI Identification of the pleiotropic sacQ gene of Bacillus subtilis;
**isolation of gene product and role in
protease hyperproduction**
AU Yang M; Ferrari E; Chen E; *Henner D J
CS Genentech
LO Department of Cell Genetics, Genentech, Inc., South San Francisco,
California 94080, USA.
SO J.Bacteriol.; (1986) 166, 1, 113-19
CODEN: JOBAAY
DT Journal
LA English

L16 ANSWER 53 OF 62 BIOTECHABS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1987-01925 BIOTECHABS
TI Isolation and purification of r-(Ac)-eglin C from 3000 l of culture
broth;
using the Zeta-Prep ionexchange system (conference abstract)
AU Bill K; Walliser H P
CS CIBA-Geigy
LO Pharmaceuticals Division, CIBA-Geigy Limited, K-693.1.23 - CH-4002
Basel/Switzerland.
SO Abstr.Pap.Am.Chem.Soc.; (1986) 192 Meet., MBTD 17
CODEN: ACSRAL
DT Journal
LA English

L16 ANSWER 54 OF 62 USPATFULL on STN
AN 85:26824 USPATFULL
TI Compositions containing odor purified proteolytic enzymes and perfumes
IN Moeddel, Robert W., Cincinnati, OH, United States
PA The Procter & Gamble Company, Cincinnati, OH, United States (U.S.
corporation)
PI US 4515705 19850507
AI US 1984-591622 19840320 (6)
RLI Continuation-in-part of Ser. No. US 1983-551378, filed on 14 Nov 1983,
now abandoned

DT Utility
FS Granted
EXNAM Primary Examiner: Kittle, John E.; Assistant Examiner: Shah, Mukund J.
LREP Hasse, Donald E., Ayler, Robert B., O'Flaherty, Thomas H.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 570
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 55 OF 62 LIFESCI COPYRIGHT 2004 CSA on STN
AN 83:11239 LIFESCI
TI Extracellular products of type III Streptococcus agalactiae and their relationship to virulence.
AU Durham, D.L.; Straus, D.C.
CS Dep. Microbiol., Univ. Texas Health Sci. Cent. at San Antonio, San Antonio, TX 78284, USA
SO CURR. MICROBIOL., (1983) vol. 8, no. 2, pp. 95-100.
DT Journal
FS J
LA English
SL English

L16 ANSWER 56 OF 62 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
DUPLICATE
AN 1983:13082538 BIOTECHNO
TI Extracellular products of type III Streptococcus agalactiae and their relationship to virulence
AU Durham D.L.; Straus D.C.
CS Dep. Microbiol., Univ. Texas Health Sci. Cent., San Antonio, TX 78284, United States.
SO Current Microbiology, (1983), 8/2 (89-94)
CODEN: CUMIDD
DT Journal; Article
CY United States
LA English

L16 ANSWER 57 OF 62 USPATFULL on STN
AN 78:13595 USPATFULL
TI Intralenticular cataract surgery
IN Spina, Joseph, Bryn Mawr, PA, United States
Weibel, Michael K., Philadelphia, PA, United States
PA Novo Enzyme Corporation, Mamaroneck, NY, United States (U.S. corporation)
PI US 4078564 19780314
AI US 1976-660873 19760224 (5)
DT Utility
FS Granted
EXNAM Primary Examiner: Pace, Channing L.
LREP Fidelman, Wolfe & Waldron
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 497
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 58 OF 62 WPINDEX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1976-07839X [05] WPINDEX
TI Substance for treating cerebral disorders - prepared by enzymatic hydrolysis of reaction product of albumin with fatty acid.
DC B04
PA (CHUS) CHUGAI PHARM CO LTD
CYC 5
PI DE 2529291 A 19760122 (197605)*

JP 51007109 A 19760121 (197610)
FR 2276831 A 19760305 (197617)
GB 1477548 A 19770622 (197725)
US 4067963 A 19780110 (197804)
JP 60046092 B 19851014 (198545)
PRAI JP 1974-74303 19740701

L16 ANSWER 59 OF 62 USPATFULL on STN
AN 71:44839 USPATFULL
TI PURIFICATION AND RECOVERY OF ALKALINE PROTEASE USING CATIONIC-EXCHANGE
RESIN
IN Keay, Leonard, Florissant, MO, United States
PA Monsanto Company, St. Louis, MO, United States
PI US 3623955 19711130
AI US 1968-752461 19680814 (4)
DT Utility
FS Granted
EXNAM Primary Examiner: Shapiro, Lionel M.
LREP Hueschen; Gordon W., Hueschen and Kurlandsky, Upham; John D.
CLMN Number of Claims: 6
DRWN No Drawings
LN.CNT 745
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L16 ANSWER 60 OF 62 FEDRIP COPYRIGHT 2004 NTIS on STN
AN 2004:125955 FEDRIP
NR AGRIC 0186699
TI Characterization of Hexokinase, and Enzyme Involved in Regulating
Expression of Mannitol Dehydrogenase
SF Principal Investigator: (molecular weight)
Pharr, D. M.
Williamson, J. D.
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